

D4UB05 THRU D4UB100

Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers Voltage Range 50 to 1000 Volts Current 4.0 Amperes

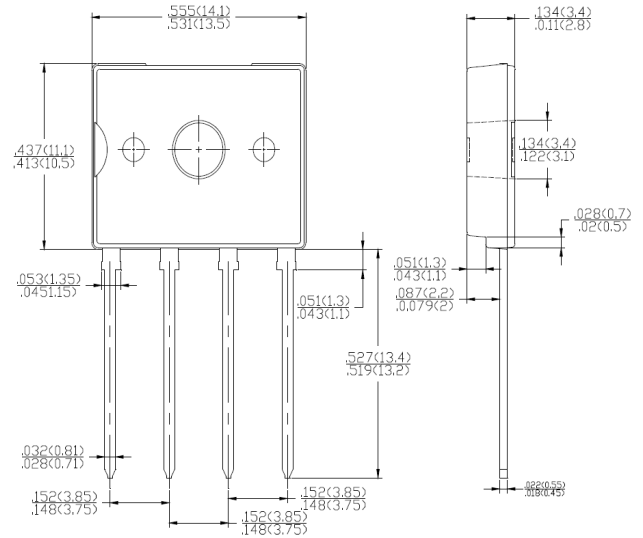
D3K

FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction technique results in inexpensive product
- ◆ High temperature soldering guaranteed:
250°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension
- ◆ UL Recognized File number: E347214

MECHANICAL DATA

- ◆ Case: Molded plastic
- ◆ Lead: solder plated
- ◆ Polarity: As marked



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number		D4UB	D4UB	D4UB	D4UB	D4UB	D4UB	D4UB	UNITS
		05	10	20	40	60	80	100	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _c =138°C	I _(AV)	4.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	135							A
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	1.00							V
Maximum DC Reverse Current @ T _A =25°C rated DC blocking voltage per leg T _A = 125°C	I _R	10 500							μ A
Typical Thermal Resistance (Note 1)	R _{θJA}	55							°C/W
(Note 2)	R _{θJL}	15							
(Note 3)	R _{θJC}	1.5							
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTE: 1. Junction to ambient, Without heatsink. 2. Junction to Lead, Without heatsink.
3. Junction to case, With heatsink.

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RATING AND CHARACTERISTIC CURVES D4UB05 THRU D4UB100

FIG. 1-MAXIMUM NONO-REPETITIVE FORWARD SURGE

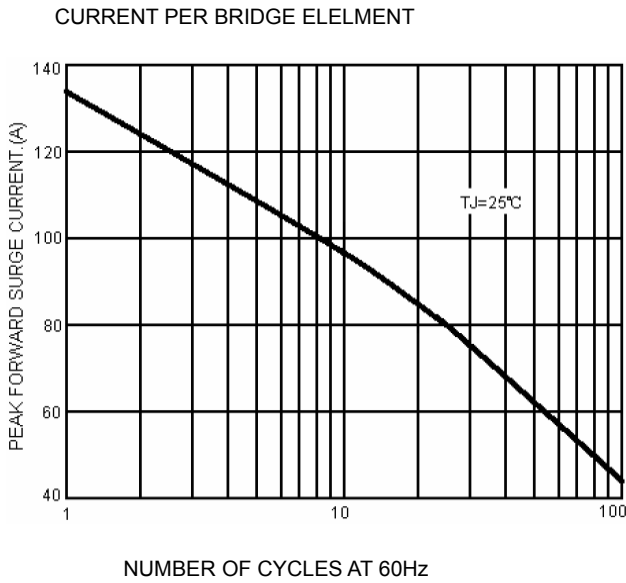


FIG. 2-MAXIMUM FORWARD CURRENT DERATING CURVE

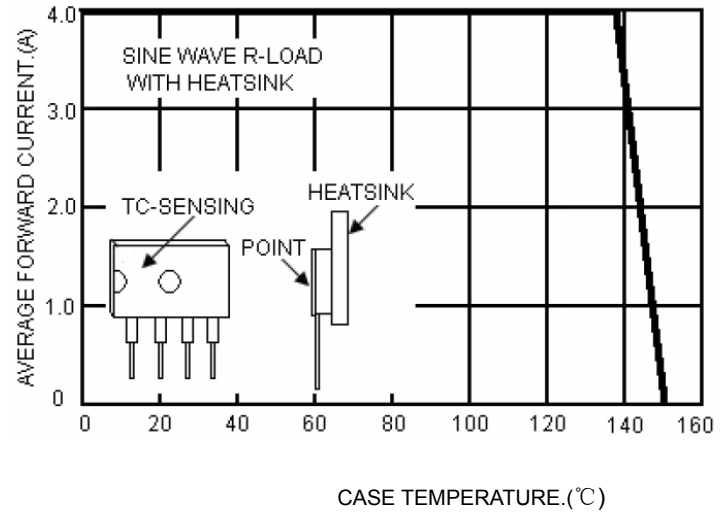


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

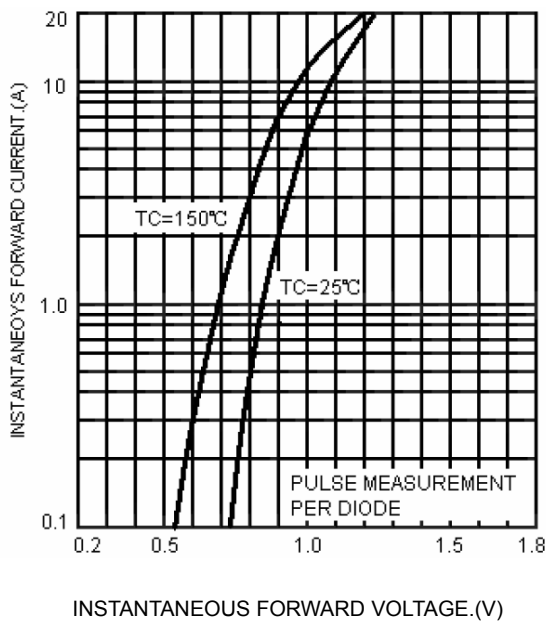


FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

